

APPENDIX A

MINE DRAINAGE SOURCE SUMMARY

Source	pH	Flow (gpm)	Acidity mg/l	Alkalinity mg/l	Total Iron mg/l	Ferrous Iron mg/l	Sulfates mg/l
			lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
US 1	3.3	32	150	0	1.0	0	660
US 2	2.9	23	447	0	14.9	0.6	830
US 3	3.4	47	110	0	6.4	0	630
US 4	5.9	53	11	41	1.0	0	490
US 5	6.7	27	6	203	13.6	0.6	330
US 6	4.7	4	45	33	1.7	0.5	550
US 7	3.1	54	218	0	6.1	2.1	630
US 8	3.1	138	237	0	3.9	0.1	570
US 9	3.4	28	148	1	1.1	0	650
US 10	3.6	19	108	1	0.6	0	620
US 11	3.1	77	227	0	2.2	0	630
US 43	4.5	57	63	2	0.3	0	620
US 44	3.6	49	148	0	1.2	0	750
US 45	4.9	36	38	12	0.2	0	550
US 46	3.0	18	324	0	7.9	0	700
US 47	4.7	21	43	4	0	0	630
US 48	3.2	22	237	0	38.6	36.1	660
US 49	6.3	12	19	51	0.6	0	440
US 50	4.2	50	113	2	0.3	0	580
US 51	7.1	4	3	222	0.2	0	260
US 52	5.4	45	28	52	0	0	500
US 53	7.6	51	0	160	1.4	0.4	320
US 54	3.6	39	70	33	0.1	0	430
US 55	7.5	7	0	139	1.0	0	320
US 56	3.3	21	154	0	1.8	0	630
US 57	3.7	44	75	0	0.2	0	510
US 58	7.2	4	0	73	0	0	430
US 59	3.6	65	141	0	0	0	680
US 60	2.9	42	355	3	12.6	1.9	720

GALLEY RUN SUBWATERSHED

Appendix A (cont'd)

MINE DRAINAGE SOURCE SUMMARY

Source	pH	Flow (gpm)	mg/l	Acidity lbs/day	mg/l	Alkalinity lbs/day	mg/l	Total Iron lbs/day	mg/l	Ferrous Iron lbs/day	mg/l	Sulfates lbs/day
US 61	3.6	251	101	304	0	0	0	0	0	0	570	1,720
US 62	3.4	45	113	61	0	0	0.3	0	0	0	590	320
US 63	3.6	32	52	20	0	0	0.1	0	0	0	590	230
US 64	3.7	40	79	38	4	2	0.3	0	0	0	680	330
M 20	3.1	249	233	697	0	0	46.2	138	33.5	100	750	2,240
M 56	3.8	1,970	88	2,082	2	47	25.2	596	17.0	402	700	16,560
M 57	3.1	44	254	134	0	0	4.9	3	0.1	0	730	380
M 58	4.0	252	55	166	6	18	0.5	2	0	0	520	1,570
M 59	3.1	77	294	272	0	0	7.1	7	0.1	0	840	780
Totals:				5,624	331	791	514	31,760				
SUBWATERSHED GALLEY RUN												
US 31	2.9	20	673	162	0	0	27.4	7	0.8	0	1,270	310
US 32	3.3	45	218	118	0	0	1.8	1	0	0	760	410
US 33	2.7	3	1,680	61	0	0	51.0	2	1.1	0	1,470	50
US 34	2.9	54	556	361	0	0	15.6	10	0.3	0	890	580
US 35	3.1	20	301	72	0	0	9.8	2	0.3	0	720	170
US 36	3.0	12	274	39	1	0	8.3	1	0.2	0	720	100
US 37	3.1	27	303	98	0	0	5.9	2	0.3	0	680	220
US 38	3.1	37	347	154	0	0	7.7	3	0.2	0	860	380
US 39	3.4	6	202	15	0	0	0	0	0	0	820	60
US 40	3.4	27	117	38	0	0	2.3	1	0	0	520	170
US 41	2.9	21	414	104	0	0	9.9	3	0.3	0	730	180
US 42	2.9	162	480	934	0	0	22.3	43	3.0	6	900	1,750
Totals:				2,156	0	75	6	4,380				
SUBWATERSHED HICKMAN RUN												
US 12	3.6	54	43	28	9	6	6.3	4	4.9	3	1,230	800
US 13	6.8	13	11	2	323	50	15.9	2	6.6	1	1,610	250
US 14	6.8	61	14	10	355	260	14.8	11	8.7	6	1,610	1,180
US 15	7.0	87	6	6	345	360	16.3	17	7.8	8	1,600	1,670
US 16	7.1	24	7	2	309	89	13.6	4	4.6	1	1,410	410
Totals:				2,156	0	75	6	4,380				
SUBWATERSHED OPOSUM RUN												

MINE DRAINAGE SOURCE SUMMARY

Source	pH	Flow (gpm)	mg/l	Acidity lbs/day	mg/l	Alkalinity lbs/day	mg/l	Total Iron lbs/day	mg/l	Ferrous Iron lbs/day	mg/l	Sulfates mg/l	lbs/day
US 17	7.3	33	2	1	317	126	6.4	3	2.0	1	1,420	560	
US 18	7.3	37	4	2	289	128	2.9	1	0.4	0	1,340	600	
US 19	6.7	164	23	45	259	510	24.4	48	12.2	24	1,130	2,230	
US 20	6.9	14	14	2	201	34	12.4	2	6.8	1	820	140	
US 21	6.4	585	44	309	200	1,405	26.2	184	19.0	133	890	6,250	
US 22	4.5	79	45	43	20	19	18.0	17	10.7	10	710	670	
US 24	2.8	57	1,401	959	0	0	93.4	64	38.4	26	1,000	680	
US 28	7.1	95	2	2	87	99	0.7	1	0	0	250	290	
US 29	7.1	13	0	0	101	16	0.1	0	0	0	240	40	
US 65	6.4	182	15	33	84	184	9.0	20	5.1	11	690	1,510	
M 19	6.0	3,165	101	3,839	195	7,412	39.3	1,494	29.8	1,133	1,540	58,540	
M 54	5.1	546	75	492	33	216	32.9	216	24.6	161	690	4,520	
M 55	5.6	87	30	31	38	40	3.2	3	1.7	2	660	690	
Totals: 5,296													81,030
DICKERSON RUN SUBWATERSHED													
US 25	3.5	61	137	100	0	0	1.2	1	0	0	580	420	
US 26	3.1	49	197	116	0	0	2.7	2	0	0	620	360	
US 27	3.1	68	273	223	0	0	8.2	7	1.0	1	660	540	
Totals: 178													1,320
GRINDSTONE SUBWATERSHED													
G 1	7.0	197	15	35	779	1,843	15.4	36	10.0	24	1,980	4,680	
G 2	6.8	60	76	55	732	527	17.2	12	12.9	9	2,240	1,610	
G 3	6.8	21	26	7	830	209	17.9	5	14.6	4	2,340	590	
G 4	6.8	61	74	54	774	567	16.8	12	14.3	10	2,280	1,670	
G 5	6.8	50	61	37	876	526	14.8	9	10.5	6	2,640	1,590	
G 6	7.0	78	26	24	843	790	11.6	11	10.1	9	2,390	2,240	
G 7	6.9	35	9	4	259	109	0	0	0	0	670	280	
Totals: 502													12,660
JENNINGS SUBWATERSHED													
J 1	2.9	43	472	244	0	0	19.0	10	16.4	8	750	390	
Totals: 43													390

MINE DRAINAGE SOURCE SUMMARY

Source	pH	Flow (gpm)	Acidity mg/l	Alkalinity lbs/day	Total Iron mg/l	Ferrous Iron mg/l	Sulfates mg/l				
			lbs/day	lbs/day	lbs/day	lbs/day	lbs/day				
WL 1	6.1	9	13	287	31	72.0	8	37.1	4	1,680	180
WL 2	3.3	6	18	2	0	159.7	12	141.2	10	2,280	160
WL 3	3.8	4	12	45	2	188.9	9	134.4	6	2,620	130
WL 4	3.6	3	13	13	0	146.2	5	130.6	5	2,580	90
WL 5	5.8	7	7	204	17	94.8	8	63.3	5	2,310	190
WL 6	6.1	12	15	270	39	86.8	13	54.5	8	2,290	330
WL 7	3.8	23	143	4	1	189.0	52	165.1	46	2,810	780
WL 8	3.6	4	28	2	0	264.3	13	217.0	10	2,790	130
WL 9	4.9	292	610	52	182	92.9	326	73.3	257	2,280	8,000
WL 10	3.2	22	71	0	0	8.9	2	2.9	1	670	180
WL 11	2.8	29	337	0	0	36.7	13	1.1	0	1,510	530
WL 12	2.8	4	47	0	0	21.0	1	0.7	0	1,730	80
WL 13	2.6	18	246	0	0	64.3	14	2.8	1	1,580	340
WL 14	2.9	19	172	0	0	23.9	5	2.5	1	1,170	270
WL 15	4.3	45	50	8	4	0.4	0	0	0	550	300
WL 16	3.1	44	312	0	0	36.7	19	2.2	1	1,270	670
WL 17	3.1	29	1,392	0	0	26.5	9	1.8	1	1,000	350
WL 18	3.7	88	190	0	0	2.5	3	0.1	0	782	830
WL 19	3.8	27	33	25	8	3.6	1	0.3	0	720	230
WL 20	3.5	84	153	7	7	7.9	8	0.3	0	610	620
WL 21	3.4	3	4	1	0	4.2	0	0.1	0	1,130	40
WL 22	3.2	8	33	1	0	8.5	1	1.1	0	1,140	110
WL 23	3.1	10	44	0	0	7.0	1	1.2	0	810	100
WL 24	4.5	15	15	133	24	3.8	1	0.3	0	610	110
WL 25	3.0	8	35	0	0	14.4	1	2.4	0	690	70
WL 26	3.0	5	60	0	0	13.8	1	2.8	0	660	40
WL 27	3.8	37	24	333	148	11.7	5	3.7	2	580	260
Totals:		855	4,077	463	531	358	15,120				

WEST LEISNRING SUBWATERSHED

MINE DRAINAGE SOURCE SUMMARY

Source	pH	Flow (gpm)	Acidity lbs/day	Alkalinity mg/l	Total Iron lbs/day	Ferrous Iron mg/l	Sulfates mg/l
P 1	3.2	4,471	15,787	7	7,469	113.1	1,950
P 2	3.5	207	522	7	302	91.6	2,280
P 3	3.4	216	594	0	322	75.4	2,140
P 4	3.3	74	208	1	88	89.3	1,910
P 5	3.8	1	1	3	0	27.6	1,170
P 6	3.2	12	30	2	11	48.0	1,770
P 7	3.3	4	12	58	4	74.6	1,770
P 8	3.7	4	8	35	3	46.1	1,640
P 9	3.3	11	27	11	10	54.1	1,550
P 10	2.8	9	58	0	3	1.1	1,170
P 11	7.0	43	7	197	3	4.6	810
Totals:		5,052	17,254	502	8,215	6,598	118,815
UR 1	2.8	122	2,076	0	66	5.2	1,640
UR 2	3.8	68	41	52	22	18.4	570
UR 3	3.9	16	11	15	6	25.0	910
Totals:		206	2,128	45	94	28	3,040
N 1	2.9	18	82	0	9	0	877
N 2	2.8	6	42	0	2	0	938
N 3	3.9	3	3	0	0	0.4	190
N 4	3.0	17	109	0	2	0	1,080
N 5	4.8	2	1	13	0	1.5	220
N 6	3.1	2	15	0	0	2.6	10
N 7	2.9	35	247	0	11	1.4	1,170
N 8	2.9	5	27	0	2	1.8	795
N 9	2.8	5	28	0	0	0.1	860
N 10	2.8	8	16	0	2	1.5	905
N 11	3.3	4	35	0	0	0.6	1,790
N 12	3.0	7	46	0	1	0	1,120
N 13	3.4	2	18	0	0	1.5	3,183
N 14	3.8	4	12	0	0	1.3	1,720
N 15	6.3	4	2	234	0	3.2	97
N 16	6.3	4	2	239	0	0.6	740
Totals:		126	685	22	29	1	1,570

PHILLIPS
SUBWATERSHED

UPPER REDSTONE
SUBWATERSHED

BROWNS RUN
SUBWATERSHED